

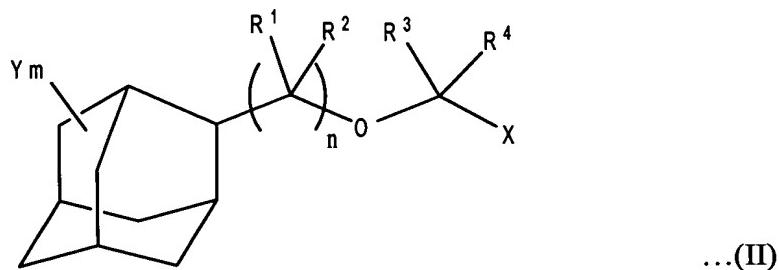
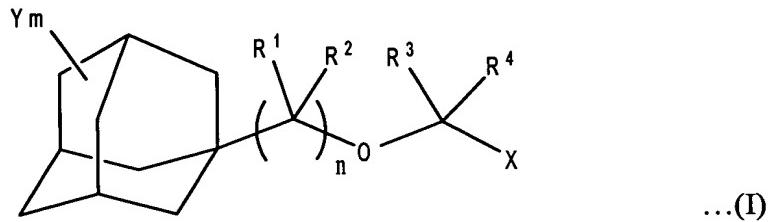
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AMENDMENTS TO THE CLAIMS

JC17 Rec'd PCT/PTO 24 JUN 2005

Please amend the claims as follows:

Claim1 (Original): An adamantane derivative characterized by having a structure represented by Formula (I) or (II):

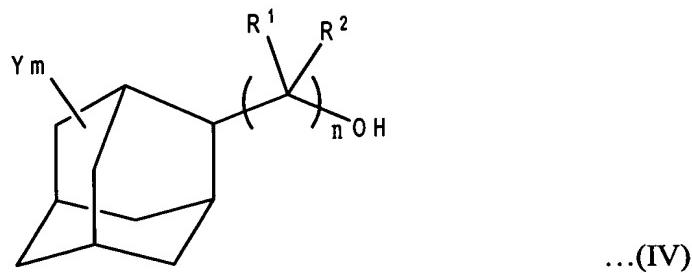
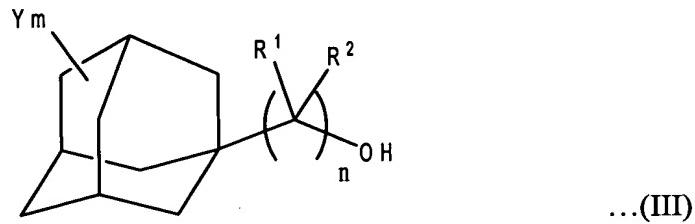


wherein X represents a halogen atom; Y represents an alkyl group having 1 to 10 carbon atoms, a halogenated alkyl group having 1 to 10 carbon atoms, a halogen atom or a hetero atom-containing group; R¹ to R⁴ represent independently hydrogen, a halogen atom, an alkyl group having 1 to 10 carbon atoms or a halogenated alkyl group having 1 to 10 carbon atoms; m represents an integer of 0 to 15, and n represents an integer of 0 to 10; and excluded is a

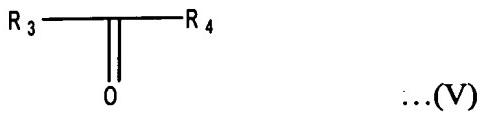
case where in Formula (I), m and n are 0 at the same time and R³ and R⁴ are a hydrogen atom at the same time.

Claim 2 (Original): The adamantane derivative as described in claim 1, wherein in Formula (I) or (II) ~~described above~~, Y represents =O formed by allowing two Y's to be put together.

Claim 3 (Currently Amended): A ~~production~~ process for producing the adamantane derivative ~~as described of in~~ claim 1 or 2, characterized by comprising reacting an alcohol having comprising an adamantyl group represented by Formula (III) or (IV):

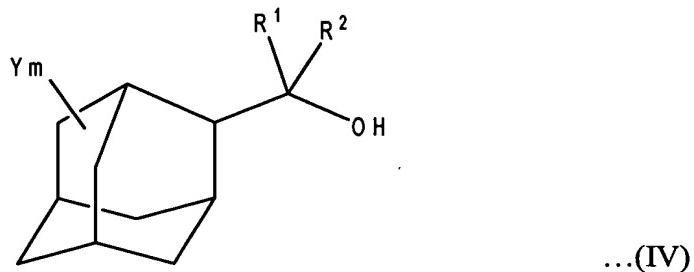
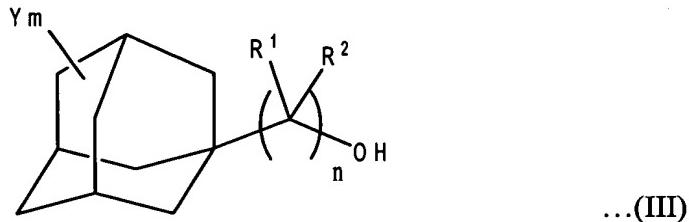


(wherein wherein X, Y, R¹, R², m and n are the same as described above) above, with a carbonyl compound represented by Formula (V):



and at least one hydrogen halide gas to obtain the adamantine derivative;
(wherein wherein R³ and R⁴ are the same as described above, and wherein when m and n are
0 at the same time in Formula (III) described above, R³ and R⁴ are not a hydrogen atom ~~at the~~
~~same time) and hydrogen halide gas.~~

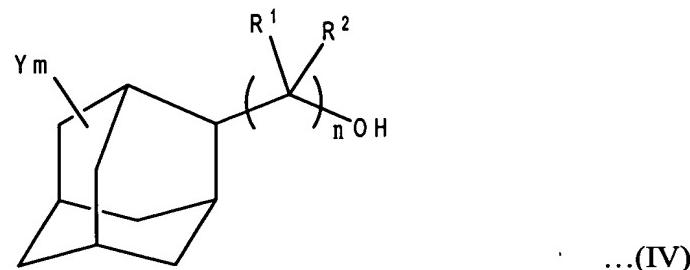
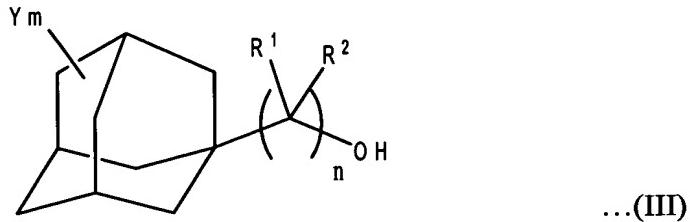
Claim 4 (Currently Amended): A production process for producing the adamantane derivative ~~as described in~~ ~~of~~ claim 1 or 2, characterized by comprising reacting an alcohol having comprising an adamantyl group represented by Formula (III) or (IV):



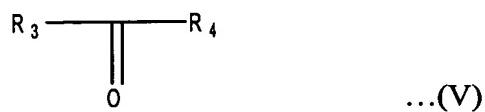
(wherein wherein X, Y, R¹, R², m and n are the same as described above, and a case where m
and n in Formula (III) are not 0 at the same time is excluded), with dimethylsulfoxide ~~under~~
in the presence of acetic anhydride to obtain a (methylthio)methyl ether compound and

reacting it the (methylthio)methyl ether compound with sulfonyl chloride to obtain the adamantine derivative, wherein the (methylthio)methyl ether compound is reacted without first being isolated after isolating it or without isolating it.

Claim 5 (New): A process for producing the adamantane derivative of claim 2, comprising reacting an alcohol comprising an adamantyl group represented by Formula (III) or (IV):



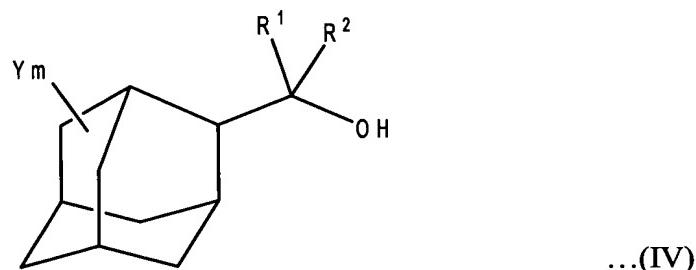
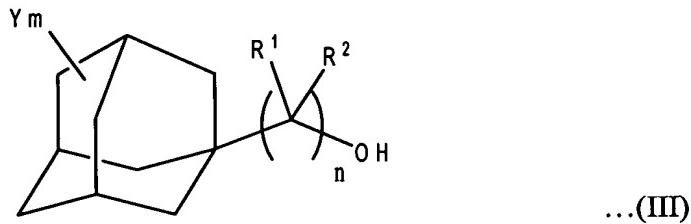
wherein X , Y , R^1 , R^2 , m and n are the same as described above, with a carbonyl compound represented by Formula (V):



and at least one hydrogen halide gas to obtain the adamantine derivative;

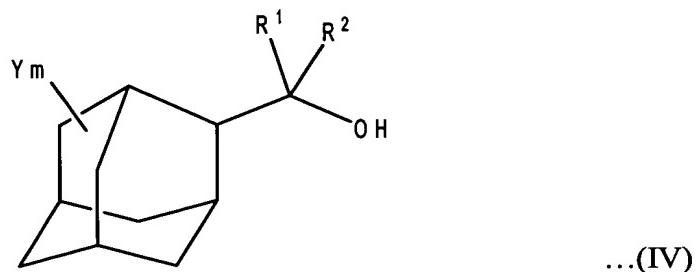
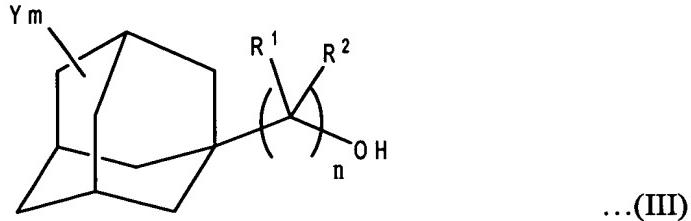
wherein R³ and R⁴ are the same as described above, and wherein when m and n are 0 at the same time in Formula (III) described above, R³ and R⁴ are not a hydrogen atom.

Claim 6 (New): A process for producing the adamantane derivative of claim 1, comprising reacting an alcohol comprising an adamantyl group represented by Formula (III) or (IV):



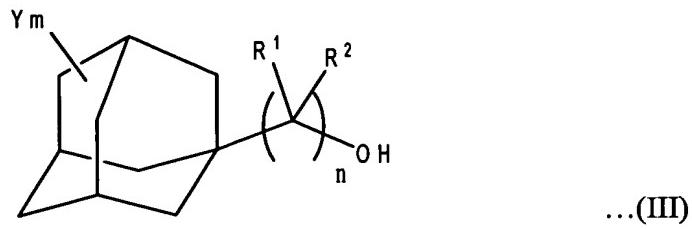
wherein X, Y, R¹, R², m and n are the same as described above, and where m and n in Formula (III) are not 0 at the same time, with dimethylsulfoxide in the presence of acetic anhydride to obtain a (methylthio)methyl ether compound and reacting the (methylthio)methyl ether compound with sulfonyl chloride to obtain the adamantine derivative, wherein the (methylthio)methyl ether compound is reacted after first being isolated.

Claim 7 (New): A process for producing the adamantane derivative of claim 2, comprising reacting an alcohol comprising an adamantyl group represented by Formula (III) or (IV):

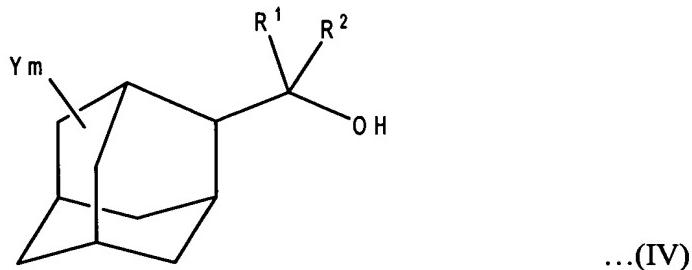


wherein X , Y , R^1 , R^2 , m and n are the same as described above, and where m and n in Formula (III) are not 0 at the same time, with dimethylsulfoxide in the presence of acetic anhydride to obtain a (methylthio)methyl ether compound and reacting the (methylthio)methyl ether compound with sulfonyl chloride to obtain the adamantine derivative, wherein the (methylthio)methyl ether compound is reacted after first being isolated.

Claim 8 (New): A process for producing the adamantane derivative of claim 1, comprising reacting an alcohol comprising an adamantyl group represented by Formula (III) or (IV):



...(III)



...(IV)

wherein X, Y, R¹, R², m and n are the same as described above, and where m and n in Formula (III) are not 0 at the same time, with dimethylsulfoxide in the presence of acetic anhydride to obtain a (methylthio)methyl ether compound and reacting the (methylthio)methyl ether compound with sulfonyl chloride to obtain the adamantine derivative, wherein the (methylthio)methyl ether compound is reacted without first being isolated.